	FIELD RECORD AND COMPUTATIONS - TELLUROMENTER For use of this form, see TM 5-232; the proponent agency is TRADOC.																								
BLOCK I - STATION DATA																									
STATION HEIGHT METERS							INST. N	O. OPERATOR W				WE	ATHER:												
MASTER: 1										R			RECORDER:												
REMOTE: 2										APF			PROX	ROX. DIS.: MILES METERS											
						SUI	UM OF HEIGHTS				(2)) 5 MEAN HEIGHT (4) ÷ ((2)							
BLOCK II - INITIAL COARSE READINGS								BLOCK IV - FINAL COARSE READING																	
A+		A+		A+	\perp		A	•				A+		A+			A+	A+			•				
В		С		D	1		A-	_				В		С			D		A -						
DIF	F	DIFF				4				DIF	F	DIFF			DIFF			DIFF		2					
COMPARE WITH A+										COMPARE WITH A+															
BLOCK III - FINE READINGS						BLOCK V - TRANSIT TIME (III, IV & X)																			
SE		DIAL A FORWARD			REVERSE			MEAN DIFF			:::::	APPROX DIS MILES (X)					_	0	0	0	0	0		H	
1	:::::::::::	*											OARSE A +, B DIFF				+	lacksquare	-	0	0	0	0		
			_															+	+	_	╀	•	0	0	Ť
2		DIFF +											READING) A +, D DI MEAN FINE READING					╁	+	+	┰	╁	•	"	Ľ
	::::::::::::::::::::::::::::::::::::::	- T										BRI	BRING DOWN UNRESO					*	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	, 	+			
		DIFF	-									RES	TRANSIT TIME RESOLVED TRANSIT TIME				\dashv					+			
3		+		_								TRA	ANSIT T	IME			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		- ·											<u>:::::::::::::::::::::::::::::::::::::</u>	BI ()CK	VI -	MFI	Œ	RE	- ΔD	INC	S	::::::	::::::	
	:: L	DIFF							BLOCK VI - METER REAL MASTER								REMOTE								
4		+						<u></u>					AVC			+									
		_											REGU	LATC	R	+									
	:: L	DIFF									نننن					A						A			
SUM MEAN DIFF											MODUL	.ATIC	N	В					В	В					
DIVIDE BY NUMBER OF SETS TIMES 2										LEVELS C C															
MEAN FINE READING (COMPARE WITH A+)									D D																
BLOCK VII - SLOPE DISTANCE, METERS								BLOCK IX - SEA LEVEL DISTANCE METERS																	
1	1 LOG CORRECTED TRANSIT TIME (V)								1	1 LOG SLOPE DISTANCE METERS (VII)															
2 LOG 1/2 V/N METERS . 9							175	650	9	2 LOG COS VERTICAL ANGLE (VIII)							I)								
3 LOG SLOPE DISTANCE METERS (1) + (2)							 	<u> </u>		3 (1) + (2) LOG HORIZONTAL DISTANCE METERS															
									4	LOG S	EA LI	EVEL	. COI	EFFIC	IEN	X) TI	(I)			İ					
									5	(3) + (4 DISTAI) LO	G SE.	A LE	VEL					İ	i					
	E	BLOC	K VIII	- VE	RTI	CAL	. Al	١G	LE			6	SEA LI					TE	RS						
	TERS)									CF															
	SLOPE DISTANCE (METERS) DIFFERENCE IN HEIGHT (METERS)										IT														
VERTICAL ANGLE																									
HORIZONTAL DISTANCE (METERS)									BLOCK X - FIRST FIGURE (TRANSIT TIME)																
1 DIFFERENCE HEIGHT METERS								APPROX DISTANCE MILES (I) FIRST FIGUR										UR	<u>E</u>						
2	LOG (I)								0–10									0							
3								 	<u> </u>		10–20									1					
4	VEDTICAL ANGLE FOLIAL TO							<u> </u>		20–30								2							
5 LOG SIN (4) CHECKER								<u>i</u>	•	30-40 SHEET OF							3 SHEETS								
NOTEROOK																	1 S								
NOTEBOOK REFERENCE															DA	ATE									

BLOCK XI - SEA LEVEL COEFFICIENT

The height used to determine log sea level coefficient is height of known station to the nearest 100 meters. Mean height should be used if the heights of both stations are known.

HEIGHT	LOG SEA LEVEL
METERS	COEFFICIENT
-100	0.0000068
-50	0.0000034
00	0.0000000
50	9.9999966
100	9.9999931
200	9.9999863
300	9. 99997 95
400	9.9999727
500	9.9999659
600	9.9999590
700	9.9999522
800	9.9999453
900	9.9999386
1000	9.9999317
1100	9.9999249
1200	9.9999181
1300	9.9999112
1400	9.9999044 9.9998976
1500	9.9998908
1600 1700	9.9998839
1800	9.9998770
1900	9.9998703
2000	9.9998634
2100	9.9998566
2200	9.9998498
2300	9.9998429
2400	9.9998361
2500	9.9998292
2600	9.9998225
2700	9.9998156
2800	9.9998088
2900	9.9998020
3000	9.9997951
3100	9.9997883
3200	9.9997815
3300	9.9997747
3400	9.9997678
3500	9.9997609
3600	9.9997542

NOTE:

The above values were computed for a northing of 3 200 000 and azimuth of 45 degrees and can be used anywhere on the UTM grid without causing an error greater than 1:250,000.

GIVEN:

Height of station - METERS.

FIELD DATA:

- Approximate distance in both miles and meters.
- b. Corrected transit time.
- c. Height if not available.
- d. Vertical angle (compute if not possible to measure).

GUIDE:

- a. BLOCKS II, III & IV If A+ is less than B, C or A-, add 100 to A+ before determining the difference.
- b. BLOCKS II, III & IV "Compare with A+" means that this figure must compare ± 4
 MUS with A+ in the final coarse reading.
 If necessary add 50.
- c. BLOCK VIII (5) Measured or computed vertical angle.

LIMITATIONS:

This form may be used for obtaining artillery survey accuracies.

RESULTS:

A sea level distance is determined which should be treated the same as a taped distance.